

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

ILIESCU, M., dr.; BERCEANU, St., dr.; IONASESCU, Gabi, dr.

Contributions on the diagnostic and prognostic importance of the
Waaler-Rose test in chronic evolutive polyarthritis. Med. intern. 13
no.10:1377-1384 0 '61.

(ARTHRITIS, RHEUMATOID diagnosis)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

ILIESCO, M.; BERCEANU, St.; TURCANU, Al.; VAINER, Henriette; RADULESCO,
Elena; TAGA, M.

Study of the changes in blood proteins in horses experimentally
infected with A.I.C. virus (infectious anemia of horses) and
their relations to the morphological and immuno-serological changes.
Arch. Roum. path. exp. microbiol. 20 no.3:491-501 S '61.

1.Travail de lInstitut "Dr. I. Canacuzino" Services d'Hematologie-
Serologie et d'Immunochimie.
(VIRUS DISEASES experimental) (HORSES diseases)
(BLOOD PROTEINS) (RETICULOENDOTHELIAL SYSTEM pathology)

RUMAIA

BERCENIU, St., MD,

Medical Clinic I, "Colentina" Hospital (Clinica I medicala,
Spitalul "Colentina")

Bucharest, Viața Medicală, No 14, 15 Jul 63, pp 937-949

"Present Problems of Physiology and Physiopathology in Renal
Insufficiency."

ILIESCO, M.; BERCEANU, St.; RADU, I.; HERGOT, Lucia

Research on experimental toxic hepatitis. II. Considerations on the lesions in toxic hepatitis and in hepatitis due to isoimmunization with hepatic antigens. Arch. Roum. path. exp. microbiol. 22 no.1:41-56 Mr '63.

(HEPATITIS, TOXIC)
(CARBON TETRACHLORIDE POISONING)
(LIVER EXTRACTS) (FREUND'S ADJUVANT)
(HEPATITIS) (ANTIGEN-ANTIBODY REACTIONS)

ILIESCO, M.; RADU, I.; BERCEANU, St.

Experimental research on the process of isoimmunization in
guinea pigs. I. Immuno-serological investigations. Arch. Roum.
path. exp. microbiol. 22 no.1:57-68 Mr '63.

(ANTIGEN-ANTIBODY REACTIONS)
(LIVER EXTRACTS) (FREUND'S ADJUVANT)
(KIDNEY) (TISSUE EXTRACTS)
(PRECIPITIN TESTS) (SKIN TESTS)

ILIESCO,M.; RADU, I.; HERCEANU,St.; HERCOT, Lucia; IONASESCO, Rebeca;
MOLDOVEANU, N.; SFERDIAN, O. Assistant technique: MARINESCO, M.

Serological research on the mechanism of autoimmunity in acute
and chronic hepatitis in man. Arch. roum. path. exp. microbiol.
23 no.3:805-810 8'63

1. Institut "Dr. I. Cantacuzino", Bucarest (for: Iliesco, Radu, Marinesco).
2. Clinique Medicale "Bernat Andrei", Bucarest (for: Berceanu,
Hercot, Ionasesco). 3. Hopital de Maladies Contagieuses No.2,
Bucarest (for: Moldoveanu, Sferidian).

BERCEANU, St., dr.; GRIB, R., dr.; GROZEA, P. dr.; GOCIU, Marieta, dr.;
SIGHETEA, Elena, dr.

Current problems in chemotherapy and hormone therapy of malignant hemopathies. Med. intern. (Bucur.) 16 no. 6:685-693
Jn '64.

1. lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si M.S.P.S. (director: acad. N.Gh. Lupu).

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CIA-RDP86-00513R000200020019-7

Leptothrix, *Leptothrix*, *Mycobacterium*, *Tubercle bacillus*, *Tuberculosis*, *Tubercular*, *Tubercular*.

Based on our initial research, the following recommendations are suggested for evaluation and planning of the new plant. First, we recommend that the new plant be located in the same area as the existing plant.

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CIA-RDP86-00513R000200020019-7"

BACOVEANU, Carmen; VULPESCU, Tofla; COCNU, Mariana; FINEHSTEIN,
Floriana; BERCEANU, St.

The classification of Besnier-Boeck syndrome among the retinopathies. Stud. cercet. med. Intern. 5 no.5:547-553 '64.

BERCEANUM, St.; GOCIU, Mariana; RAIKANU, Ioana

Studies of the behavior of hematopoietic cells in tissue culture. Stud. cercet. med. intern. 6 no.1:25-29 '65.

RACOVENI, Carmen; DANCESCU, Ileana; STOICA, G.; TEICAN-GHEORGHIU, Maria;
BECLEANU, St.

Research on anti-pulmonary tissue antibodies in chronic ob-
structive pneumopathy. Stud. cercet. med. intern. 6 no.3:
295-299 '65.

CUREA, I.; MIHAILESCU, Dtr.; TORO, E.; CUREA, O., prof.; BERCEI, E.; GHEREGA, O.; JURA, C., conf.; OHANOVICI, N.; SINITEANU, D., asist.; LAMOTH, P., conf.; POLICEC, A., asist.; MARIENUT, U., asist.; STURZ, I.; OITA, V.; BAEA, R.; MUNTEANU, A.; SCHIFF, A., asist.

Total solar eclipse of February 15, 1961. Studii astronom seismol 7 no.2:247-258 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari de astronomie si seismologie" (for I. Curea). 2. Studenti la Institutul Pedagogic Timisoara (for Bercei and Gherega).

BERCEL, T.

Distr: 4Etc

✓ 6560. SURFACE WAVE PROPAGATION ALONG COATED WIRES 631.373
T.Bercell,

Internat. J. Numer. Meth. Engng., Vol. 17, No. 3-4, 219-52 (1981).

A general theory is presented of the propagation of surface waves on coated wires. The solution is valid for wire coatings of any value of dielectric constant or permeability. Consideration is given to the power distribution in the wire coating and surrounding space, to the characteristic impedance and to the attenuation due to branching and transverse losses. An optimum field concentration for minimum loss is deduced. Maximum power handling capacity is determined both for voltage and thermal breakdown. A routine for designing surface wave lines is illustrated by a detailed numerical example.

W.T.Blackband

JW
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BERCELI, T.

Investigation of surface wave transmission lines. In English. p. 257.

ACTA TECHNICA . (Magyar Tudomanyos Akademia) Budapest, Hungary, Vol. 25, no. 3/4,
1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959,
Uncl.

24124

H/009/60/000/003/003/004
A205/A1266,4300

AUTHOR: Berceli, Tibor, Candidate of Technical Sciences

TITLE: Travelling-wave amplifier

PERIODICAL: Magyar Hiradástechnika, no. 3, 1960, 108 - 114

TEXT: In the Research Institute of Telecommunication the travelling-wave final amplifier of a wide-band microwave apparatus has been developed, which is suitable for the broadcast of TV programs up to a distance of 2,500 km. This apparatus works in the 4,000 Mc band. The wiring diagrams of the transmission, relay and receiving stations, as well as a comparison between helix-coupling and wave-guide coupling are given. The apparatus has the following principal characteristics: working input level: 5 mw; amplifying on this level: 28 dB; working output level 3w, noise factor below 30 dB. The AM-PM converting is defined by the formula:

$$\frac{\Delta\theta}{\Delta P} = 13.2 \left[S_1^2 - \frac{1}{4}(1+S_1^2-S_2^2)^2 \right]^{1/2} \text{ degree/dB} \quad (1)$$

where: S_1 = the relative amplitude at the output of the signal of a level

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Travelling-wave amplifier

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A205/A126

which is with 30 dB lower and S_2 = the relative amplitude of the new signal obtained at the output. The optimum dimensions of the helix-coupling are discussed and the author emphasizes the fact that the screening effect of the helix-coupling has also been taken into account in the design of this coupling, which deviates from the conventional types. The dimensions refer only to coaxial helix-couplings that have an identical phase-velocity and are coiled in opposite direction. In the calculations the author starts from the coupling factor between the helices

$$k_{1.2} = e^{-\beta(a_2-a_1)} \quad (2)$$

and by defining the phase factor of the energy wave

$$\beta_c = 2\beta k \quad (4)$$

and the wave length

$$\lambda_c = \frac{2\pi}{\beta_c} \quad (5)$$

give a solution for the length of the helix-coupling

$$L = \frac{\lambda_c}{2} = \frac{\pi}{\beta_c} \quad (6)$$

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A205/A126

With equation (7) the resultant coupling factor can be calculated, while considering the screen effect of the helix:

$$k = k_{1.2} \sqrt{\frac{1-k_{2.3}}{1-k_{1.3}^2}} \quad (7)$$

where $k_{1.2}$ = the coupling factor between the internal and the external helix; $k_{1.3}$ = the coupling factor between the inner helix and the screening; $k_{2.3}$ = the coupling factor between the coupling helix and the screening. The calculation method and the experimental results obtained with this new dimensioning are described in detail. The deviation between calculated and experimental values is approximately 10%. There are 9 figures and 7 references: 2 Soviet-bloc and 5 non-Soviet-bloc. The reference to the most recent English-language publication reads as follows: Laico, J. P., McDowell, H. L., Moster, C. R.: A Medium Power Traveling-Wave Tube for 6000-Mc Radio Relay. Bell System Techn. Journ. 1956. nov. 1285 - 1346 old.

ASSOCIATION: Távközles Kutató Intézet (Research Institute of Telecommunication)

Card 3/3

7/13/70

S/194/62/000/002/062/036
D290/D301

AUTHOR: Berceli, T.

TITLE: Design of helical couplers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 2, 1962, 12-13, abstract 2Zh94 (Acta techn. Acad.
scient. hung., 1960, 31, no. 3-4, 311-341)

TEXT: The design of helical couplers is discussed; the author gives an approximate method of calculation and a method of measuring the optimum dimensions. The optimum dimensions are calculated for a coupler in the range 2000 - 4000 Mc/s; they are within 10% of the measured optimum values. The relation between the voltage standing wave ratio of the coupler and the thickness of the conductor is studied; a thick conductor is preferable. The measured characteristics of the coupler are given and the technique of manufacture is described. /Abstracter's note: Complete translation./

Card 1/1

21785

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8/009/61/000/002/002/002
D020/D105

AUTHOR: Berceli, Tibor, Doctor, Candidate of Technical Sciences, Member

TITLE: Designing of surface wave guides

PERIODICAL: Magyar Hiradástechnika, no. 2, 1961, 51 - 64

TEXT: The author discusses problems of surface wave propagation along wires with dielectric and magnetic coatings and determines phase and group velocities, power distribution, wave impedance, energy losses, optimum maximum field intensity and transmissible peak power for the purpose of obtaining approximate formulas for calculating and designing wires with dielectric and magnetic coatings. The calculations refer to endless wires with dielectric and magnetic coating spanned in infinite homogenous space. The graph for determining maximum field intensity is shown in Fig. 2 and is based on the equation

$$M(g_0 r_2) = -\left(\frac{\beta_0 r_2}{2}\right)^2 \ln 0.89 g_0 r_2 \quad (17)$$

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H/009/61/000/002/002/002
D020/D105**Designing of surface wave guides**

where g_0 is the maximum field intensity and r_2 , the external radius of the coating. This equation is derived from formulas expressing the electric and magnetic intensities and satisfying boundary conditions. The relation between maximum field intensity and the dielectric constant is shown in Fig. 3, while the relation between maximum field intensity and permeability is shown in Fig. 4. Both graphs refer to a conductor with radius r_1 of 1.2 mm, external radius of its coating r_2 of 1.5 mm and an operating frequency of 3,000 Mcps. Fig. 5 shows the values of phase velocity and group velocity, both of which are relative to the speed of light, as functions of $\frac{r_2}{\lambda_0}$ for various $\frac{r_2}{r_1}$ values. The graphs in this figure valid for conductors with polyethylene coating where $\epsilon_{ir} = 2.26$, indicate that the phase velocity decreases with the increase of frequency and with the increase in the thickness of the coating. The power distribution on the conductor surface is

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Designing of surface wave guides

shown in Fig. 6 and determined from the formula

$$G(g_o r) = -(g_o r)^2 \left\{ \frac{2j}{g_o r} H_0^{(1)}(jg_o r) H_1^{(1)}(jg_o r) + [H_0^{(1)}(jg_o r)]^2 + [H_1^{(1)}(jg_o r)]^2 \right\}. \quad (27)$$

m in Fig. 6 indicates the decades of $g_o r$, where $G(g_o r)$ is tenfold if $m = 0$. Power propagation in the space surrounding the conductor is expressed by the formula

$$P_o = \frac{j}{4\pi} I_o^2 \frac{\gamma'}{\omega \epsilon_o} \left[\ln 0,89 g_o r_2 + 0,5 \right] \quad (31)$$

where I_o is the amplitude of power intensity. The relation between power propagation in the coating and the power propagation in the space surrounding the conductor is expressed by

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D020/D105

Designing of surface wave guides

$$\frac{P_1}{P_0} = - \frac{1}{\epsilon_{ir}\mu_{ir}-1} \left(\frac{\epsilon_0}{K_0} \right)^2 \frac{\ln 0.89 g_0 r_2}{\ln 0.89 g_0 r_2 + 0.5} \quad (35)$$

and shown in Fig. 7 as a function of $\frac{r_2}{\lambda_0}$ for various $\frac{r_2}{r_1}$ values when

Polyethylene coating is used. Determination of wave impedance of surface wave guides is particularly advantageous in practical designing when examining the matching of an induction horn with the surface wave guide or of 2 different surface wave guides with each other. This is illustrated in Fig. 8. The wave impedance Z is expressed by the formula

$$Z = 138 \log \frac{0.68}{g_0 r_2} \quad (38)$$

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D020/D105

Designing of surface wave guides

which is based on the relation between wave impedance, by the equation

$$P = \frac{1}{2} Z I_o^2 \quad (36)$$

If the external wire diameter is of a constant value, the wave impedance decreases with the maximum field intensity, i.e. when the coating thickness, frequency, dielectric constant and permeability are increased. If a constant coating thickness is presupposed, the wave impedance decreases with the increase of the wire diameter. The total loss of a surface wave guide is composed of line loss and field loss. The total loss of a surface wave guide as a function of maximum field intensity shows a minimum at a certain value of maximum field intensity and is shown in Fig. 11. This minimum represents the optimum value of maximum field intensity. In designing high-capacity impulse transmission, the calculation of both the maximum trans-

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Designing of surface wave guides

missible peak power and of the maximum transmissible average power is necessary. The maximum transmissible peak power is expressed by the equation

$$P_{\max} = 1.73 \cdot 10^{11} r_2^2 \log \frac{0.68}{\epsilon_0 r_2} \quad (53)$$

The P_{\max} decreases with the maximum field intensity. In case of an unchanged field intensity, the maximum transmissible power increases with the increase of the external wire diameter. The maximum transmissible average power expressed by the equation

$$P_{\max} = 5.35 \frac{(r_2)^{2/3}}{\alpha} (T_2 - T_3)_{\max}^{5/8} \quad (62)$$

can be calculated on the basis of the maximum permissible overheating of the wire. In case of continuous operation the formula (62) is satisfactory. When high-capacity impulses are being transmitted, formulas (53) and (62)

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D020/D1C5

Designing of surface wave guides

have to be used. To design surface wave guides certain data are specified, such as transmission distance, operating frequency band and the size of the space surrounding the conductor, which can be kept clear from interferences. This space determines the maximum limit of the wave field expansion. The other data will be determined by the designer. The optimum value of the maximum field intensity, with reference to the i-f of the band, is obtained by repeated trials. From this value which includes all necessary data, the required thickness of the coating is determined. The optimum maximum field intensity is, however, not always available, especially in cases of extremely long surface wave guides. In such cases the designing should be based on the permissible minimum field intensity and the possible maximum horn size. There are 14 figures and 8 references: 2 Soviet-bloc and 6 non-Soviet-bloc. References to the English-language publications read as follows: Goubau, G.: "Surface Waves and their Application to Transmission Lines", Journal of Applied Physics, 1950, p. 1119 Goubau, G.: "Designing Surface-Wave Transmission Lines". Electronics, 1954. Apr., p. 180; Barlow,

Card 7/10

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H/009/61/000/002/002
D020/D105

Designing of surface wave guides

H.E.M.-Cullen, A.L.: "Surface Waves", Proceedings of the Institution of Electrical Engineers, Part III. 1953, p. 329; Stratton, J.A.: "Electromagnetic Theory", McGraw-Hill Book Company, Inc., New York, 1941, p. 360.

ASSOCIATION: Híradástechnikai Tudományos Egyesület (Communication Engineering Scientific Association); Távközlési Kutató Intézet (Telecommunication Research Institute)

Card 8/16

BERCELI, T. (Budapest II. Gabor Aron u.65. Ungarn.)

Wandering field amplifiers. Periodica polytechn electr 5 no.1:75-91
'61.

1. Forschungsinstitut fur Fernmeldetechnik, Budapest. Vorgelegt von
Prof. Dr. L. Kosma.

(Amplifiers, Vacuum-tube)

BERCELI, Tibor, a műszaki tudományok kandidátusa

Application of traveling-wave amplifiers in the microwave measuring
technique. Merea automat 9 no.6:169-172 '61.

1. Távközlési Kutató Intézet.

41251
S/194/62/000/007/145/160
D413/D308

AUTHOR: Berceli, T.

TITLE: A travelling-wave output amplifier for the 4000 Mc/s band

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-7-202 p (Acta techn. Acad. Scient. hung., v. 34, no. 1-2, 1961, 151-158 (Eng.; summaries in Ger., Fr. and Rus.))

TEXT: The paper describes a travelling-wavetube output amplifier for radio relay lines using FM by a 70 Mc/s subcarrier; special features of the switching and supply arrangements for the H02 TWT are pointed out. The basic parameters of the amplifier are: maximum output power 5 W, gain 28 dB, noise factor 30 dB. The author investigates the AM-PM conversion coefficient defined as the variation in output signal phase caused by variation in input signal amplitude and leading to distortions of the transmitted signal. A graph of the conversion coefficient is given as a function of the input signal power. For the transmission of television signals, it is recom-
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S/194/62/000/007/145/160

D413/D308

A travelling-wave output amplifier ...

mended to maintain a 5 mW input signal level. Results of measurements of amplifier noise are given. It is observed that the amplifier noise decreases when the TWT is placed in a suitable position with respect to a focusing magnet. The residual noise decreases with ageing of the valve; thus after 50 hours' ageing of a valve with residual noise <10 dB it was possible to reduce the noise to the standard value. Ageing was not successful in reducing the noise factor of intensely noisy valves. 6 references. [Abstracter's note: Complete translation.]

Card 2/2

BERCELI, T., Cand.of techn.sc.

Travelling-wave amplifiers for microwave measurements. Acta techn
Hung 11 no.1/2:169-178 '62.

1. Research Institute for Telecommunication, Budapest..

BERCELI, T. (Budapest, II., Gabor Aron u.65); GONDA, J. (Budapest,
II., Gabor Aron u.65)

Conditions of linearity and stability of klystron modulators.
Periodica polytechnica electr 7 no.2:127-135 '63.

1. Lehrstuhl fur Mikrowellen-Nachrichtentechnik, Technische
Universitat, Budapest. Vorgelegt von Prof. Dr. E. Istvanffy.

BERCELI, Tibor, dr., a mussaki tudomanyok kandidatusa; GONDA, Jozsef

Linearity and stability investigation of clystron modulators.
Hir techn 14 no.1:1-4 F '63.

1. Tavkozlesi Kutato Intezet tudomanyos munkatarsa (for Gonda).

BERTSEK, T. [Berceli, T.], kandidat tekhnicheskikh nauk; GONDA, Y.
[Gonda, J.]

Linearity and stability investigations of klystron modulators.
Acta techn Hung 42 no.1/3:123-132 '63.

1. Nauchno-issledovatel'skiy institut svyazi, Budapest.

BERCELI, Tibor, a muszaki tudomanyok kandidatusa

Traveling-wave amplifiers. Hir techn 11 no.3:102-114 Je '60.

l. Tavkozlesi Kutato Intezet.

MERCELL, Tibor, dr., a műszaki tudományok kandidátusa

Linearization of frequency characteristics of klystron modulators.
Hir techn 15 no. 2:40-42 F '64.

Congress on design and application of microwave tubes in
London. Ibid.:55.

1. Távközlési Kutató Intézet.

BERCES, Henrik

New calculation for converting tractors to Gamma head. Ujít
lap 14 no.4:23 F '62.

1. Nyersolajszivattyúgyar,

HUNGARY/Physical Chemistry. Kinetics. Combustion, Explosions. B
Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73279.

Author : T. Berces, P. Huhn.

Inst :

Title : On the Extension of the Concept of the Four Stage
Mechanism. I. General Considerations. II. Application
in the Analysis of an Experimental Kinetic Curve.

Orig Pub: Acta phys. et chem. Szeged, 1957, 3, No 1-4, 95-99;
100-111.

Abstract: I. The system of differential equations describing
the concentration change of active centers (dn/dt)
and initial substances for not-branched chain
reactions, the chain carriers in which are 2 active
centers converting one into the other in succession,

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HUNGARY/Physical Chemistry. Kinetics. Combustion. Explosions. B
Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73279.

was reduced (assuming that the chains were long enough) to a system of equations (RZhKhim, 1956, 46376) for single center chain reactions proceeding according to the four stage mechanism; origination, continuation, branching and chain rupture. Expressions of dc/dt and dn/dt for the case of thermal decomposition of SO_2Cl_2 (RZhKhim, 1958, 13796) proceeding through 2 active centers [$n = n_1 + n_2 = (Cl) + (SO_2Cl)$] were obtained as an example.

II. The system of differential equations describing the kinetics of the thermal decomposition of SO_2Cl (see part I) was numerically integrated varying the rate constants of elementary stages as

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HUNGARY/Physical Chemistry. Kinetics. Combustion. Explosions. B
Topochemistry. Catalysis.

Abs Jour: Ref. Zhur-Khimiya, No 22, 1958, 73279.

parameters. It is shown that the theoretically obtained kinetic curves agree with the experimental (300°, pressure 60 mm of merc. col.) kinetics of thermal decomposition of SO_2Cl_2 with any degree of exactitude after a sufficient number of approximations. The numerical values of parameters are determined. The causes of the divergence of obtained results from those published previously are discussed.

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BERCES, TIBOR

HUNGARY/Physical Chemistry - Kinetics, Combustion,
Explosions, Topochemistry, Catalysis.

B.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46011
Author : Zoltan Szabo, Tibor Berces.
Inst : Academy of Sciences of Hungary.
Title : Mechanism of Thermal Dissociation of Sulfuryl Chloride.
Orig Pub : Magyar tud. akad. Kem. tud. oszt. kozl. 1957, 9, No 2,
155-178

Abstract : The kinetics of the thermal dissociation of SO_2Cl_2 (I) was studied at 275 to 320° under initial pressures of I from 40 to 100 mm of Hg column, at various concentrations (of I, Cl and SO_2) and in various reaction vessels (of quartz, Jena glass and soda glass). Contrary to the results of earlier investigations (see Schumacher H.J., Schott C., Z. Phys. Chem., 1944, 193, 343),

Card 1/2

BRCES, T.

SCIENCE

PERIODICALS: Vol. 64, no. 7/8, July/Aug. 1958, ~~AESTA ZOOLOGICA~~
~~MALAYAR KEMIAI POLYMERAT~~, Vol. 64, no. 7/8, July/Aug. 1958

Brczes, T. A simple kinetic analysis of thermal decomposition of sulfur chloride. p 225

Monthly list of East European Accessions (EEAI) LC, Vol. 5, No. 2
February 1959, Unclass.

SZABO, Zoltan (Szeged); BERCES, Tibor (Szeged)

Consistency of the strength of chemical bonds. Kem tud kozl MTA 13
no.3:255-267 '60.
(EKA 9:11)

1. Szegedi Tudomanyegyetem Szervetlen es Analitikai Kemial
Instezete, Szeged. 2. Levelező tag, Magyar Tudomanyos Akademia
(for Szabo)
(Chemical bonds)

SZABO, Zoltan G., prof., dr. (Szeged); HERCES, Tibor, dr. (Szeged)

On the consistency of chemical bond strengths. Acta chimica Hung 22
no.4:461-474 '60.
(EEAI 10:2)

1. Institute for Inorganic and Analytical Chemistry, University of
Szeged, Hungary.
(Chemical bonds)

BERCES, Tibor; SZABO, Zoltan

Some fundamental characteristics of the kinetics of homogeneous
gas reactions. Pt. 3. Kem tud kozl MTA 19 no.3:303-319 '63.

1. Magyar Tudomanyos Akademia Reakcio-kinetikai Kutato Gyportja,
Szeged. 2. Magyar Tudomanyos Akademia levelező tagja; "A Magyar
Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei"
szerkeszto bizottsagi tagja (for Szabo).

BERCES, Tibor

Character of thermal addition reactions occurring between ethylene
and bromine at low temperature. Magy kem folyoir 70 no.3:
138-142 Mr '64.

1. Chair of Inorganic and Analytic Chemistry, Attila Jozsef
University, Szeged, and Research Group on Reaction Kinetics,
Hungarian Academy of Sciences.

CIOBANU, A., ing.; HERCESCU, V., ing.; CRISTEA, Silvia, chim.

Research on the industrial production of ice cream in Romania.
Ind alim anim 11 no.1:11-15 Ja'63.

1. Institutul de cercetari alimentare.

CIOBANU,A., ing.; BERCESCU,V., ing.; CRISTEA, Silvia, chin.

Research on the industrial production of ice cream in Rumania.
Pt.2. Ind alim anim 11 no.4:97-102 Ap'63.

1. Institutul de cercetari alimentare.

DIMITROV, S.; BERCEV, Ch.

Thalassemia major in an 8-year-old boy in Bulgaria. Cesk. pediat.
20 no.8:703-704 Ag '65.

1. Detska klinika ve Varno (prednosta doc. dr. S. Dimitrov) a
Histochemicka laborator v Sofii (prednosta dr. Ch. Bercev).

ACCESSION NR: AP4019823

S/0181/64/006/003/0662/0679

AUTHORS: Tovstyuk, K. D.; Bercha, D. M.

TITLE: Symmetry of zones in D_{2h}^1 -- D_{2h}^{16} , D_2^1 -- D_2^4 , C_{2v}^1 -- C_{2v}^{10} crystals

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 662-679

TOPIC TAGS: semiconductor, Brillouin zone, crystal structure, crystal symmetry

ABSTRACT: This work stems from the growing use of noncubic crystals as semiconductors. The authors have used the techniques developed by G. Ye. Pilius (ZhETF, 40, 1258, 1961; 41, 1507, 1961), E. I. Rashba (ZhTF, 1, 407, 1959), and I. V. Sheka (ZhTF, 2, 1121, 1960). They have investigated the theory of the space groups D_{2h}^1 -- D_{2h}^{16} , D_{2h}^1 -- D_2^4 , and C_{2v}^1 -- C_{2v}^{10} (all the cubic groups with \vec{t} , translations). Lengthy tables have been prepared to list compatibility, secondary degeneracy because of time inversion, zero slope of $E(K)$ at points of highest symmetry in the Brillouin zone, and also the dispersion law in the vicinity of points of possible extremes of $E(K)$. "The authors express their thanks to E. I. Rashba for valuable discussions of this work." Orig. art. has: 3 tables and 20 formulas.

Card 1/2

ACCESSION NR: AP4019823

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet (Chernovtsay State
University)

SUBMITTED: 24Apr63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: SS, EC

NO REF Sov: 005

OTHER: 001

Card 2/2

L 1436-66 - EWT(1)/EWT(m)/ETC/EW3(m)/T/EWP(t)/EWP(b)/EWA(h) IJP(c) RDW/JD/AT
ACCESSION NR: AIP5019862 UR/0181/65/007/008/2437/2443

AUTHOR: Bercha, D. M.; Pankevich, Z. V.; Savitskiy, A. V.; Tovstyuk, K. D.

TITLE: Piezoresistance of Sb₂Te₃

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2437-2443

TOPIC TAGS: antimony telluride, crystal lattice, semiconductor, piezoelectric, group theory, piezoelectric effect

ABSTRACT: In view of the fact that the compound Sb₂Te₃ has been little investigated in the past, and not at all from the point of view of the structure of the energy bands, the authors supplement the group-theoretical analysis with measurements of piezoresistance, for the purpose of establishing some of the distinctive features of the carrier spectrum. The p-type single crystals were obtained by zone refining technique and the measurements were made on plates measuring 15 x 2 x 2 mm cut both parallel and perpendicular to the c-axis (which in turn was perpendicular to the cleavage plane). The sample conductivity at room temperature ranged from 2.6 x 10² to 5 x 10³ ohm⁻¹cm⁻¹. The measurements were made at temperatures 100--300K. The accuracy was 20--25%. The diagonal components of the piezoresistance tensor were found to be approximately one--two orders of magnitude larger (~ 70 x 10¹² cm²/dyne) than the off-diagonal ones (~ 3 x 10¹²) and exhibited a slight

Card 1/2

L 1436-66

ACCESSION NR: AF501862

temperature dependence. The results are attributed to the complexity of the valence band, the extrema of which are located on the symmetry planes and at the center of the band. The experimental data also help clarify the hitherto confusing situation with respect to the type of space symmetry possessed by the Sb_2Te_3 lattice, since they indicate that the lattice cannot belong to the D_{3d}^5 group, thus leaving only C_{3v}^5 and D_{3d}^5 as alternatives. Orig. art. has: 4 figures, [02] 7 formulas, and 3 tables.

ASSOCIATION: Chernovitziy gosudarstvennyy universitet (Chernovitzy State University) 44, 55

SUBMITTED: 18 Jan 5

NO REF Sov: 007

ENCL: 00

OTHER: 004

SUB CODE: SS, EM

ATD PRESS: 4100

Card 2/2 D.P.

L 36262-66 EEC(k)-2/EWP(t)/ETI IJP(e) JD

ACC NR: AP6018338 SOURCE CODE: GE/0030/66/013/001/0207/0214

! AUTHOR: Tovstyuk, K. D.; Bercha, D. M.; Pankevich, Z. V.;
Karenko, I. M.

30
B

ORG: State University of Chernovtsy, Ukrainian SSR

TITLE: Piezoresistance of cadmium antimonide

SOURCE: Physica status solidi, v. 13, no. 1, 1966, 207-214

TOPIC TAGS: cadmium antimonide, piezoelectric effect, piezoresistance, crystal symmetry

ABSTRACT: A theoretical and experimental investigation of the piezoresistance of p- and n-type CdSb has been carried out. The stress applied along the three crystal axes produced a change in the resistance of the opposite sign. The proposed theory of nonequivalent valley Δ , Λ , and Γ , which follows from the low symmetry of the crystal, explains the observed effects in n-type CdSb, while the theory involving three nonequivalent shifts in valence maximums in Γ is in good agreement with the experimental results for the

Card 1/2

L 36262-66

ACC NR: AP6018338

' p-type CdSb. Orig. art. has: 4 figures and 10 formulas. [Based on
authors' abstract] [NT]

SUB CODE: 20, 11/ SUBM DATE: 200ct65/ ORIG REF: 007/ OTH REF: 008

ms
Card 2/2

DUMITRESCU, N. (d-r, [Dimitrescu, N.], (Bukarest, Rumynskaya Narodnaya
Respublika) BERCHA, O. [Bercea, O.] (Bukarest, Rumynskaya
Narodnaya Respublika)

Repeated bronchial node perforations in chronic cheesy adenitis
in adults. Probl. tub. no. 7:29-33 '62. (MIRA 15:12)
(TUBERCULOSIS) (BRONCHI)-DISEASES)

Category : USSR/Nuclear Physics - Elementary Particles

C-3

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 420

Author : Fridlender, Y., and Bercha, S.
Inst : Univ. of Bucharest, Romania
Title : Unusual V-Decay.

Orig Pub : Dokl. AN SSSR, 1956, 107. No 1, 51-53

Abstract : One of the secondary particles of the decay is identified as a 19.7 ± 2.6 Mev π -meson and the mass of the other is $3,620 \pm 390$ me. The energy of this particle is 37.1 ± 2.2 Mev if it is a deuteron, and 30.6 ± 1.8 Mev if it is a hyperon with a mass $2,370$ me. The mass of the decaying V^0 particle is 4084 ± 41 me ($Q = 38 \pm 20$ Mev) in the first case and 2692 ± 27 me ($Q = 24 \pm 13$ Mev) in the second case. The observed case is analogous to the one previously described by the Bombay group and can be interpreted as a Λ -dineutron with a binding energy of $1 \text{--} 3$ Mev. The recoil energy of the deuteron in the rest-mass system should be 2.6 ± 1.3 Mev in the decay of the V^0 particle. The authors indicate in this connection that there is a relationship between the case described and that observed in cosmic rays, when fast neutrons are formed in nuclear fissions of high energy.

Card : 1/1

BERCHANSKIY, V.P. (Blagoveshchensk)

Let's raise the quality of the mathematical training of students.
Mat. v shkole no.4:24-27 Jl-Ag '61. (MIRA 14:8)
(Mathematics--Study and teaching)

BERCHANSKIY, V.P. (Blagoveshchensk)

Errors and shortcomings in students' answers on final examinations.
Mat. v shkole no.2:49-50 Mr-Ap '62. (MIRA 15:3)
(Mathematics--Examinations, questions, etc.)

BKRCHEANU, D., prof.

Treatment of bacterial osteitis in the pre-arthritis phase
by means of local preventive surgical excision. Khirurgia
15 no.2/3:251-252 '62.

(TUBERCULOSIS OSTEOARTICULAR surg)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

BERCHENKO

Berchenko and Trutnev. "Complex Antiepizootic Treatment of Cattle in Brucellosis and Similantious Inoculation Against 'emkar'." Report at the Conference of the Veterinary Section of VASKhNIL (All-Union Academy of Agricultural Sciences imeni Lenina) 1940.

SO: Trudy Vsesoyuznogo Instituta Eksperimental'noy Veterinarii; Vol. XVIII, 1951 uncl

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

BERCHENKO, B. E.

BERCHENKO, B. E. - "Agrobiological Fundamentals of Raising Oaks by the Nest Method in the Southern Part of the Ukrainian SSR." Min Higher Education USSR, Odessa Agricultural Inst, Odessa, 1955
(Dissertation for the Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis', No. 33, 1955, pp 85-87

Berchenko, B.E.

USSR/Forestry. Forestry and Forest Cultivation.

J-3

Abs Jour: Referat Zh.-Biol., No 6, 1957, 22591

Author : Berchenko, B.E.

Inst : C

Title : Nidus Sowings of Oaks.

Orig Pub: Agrobiologiya, 1956, No 2, 110-115

Abstract: The investigations of nidus sowings of oak in forest strips planted on experimental territory of the All-Union T.D. Lysenko selective-genetic institute showed that the young oaks in the nidus, due to the speedy junction of crowns, accumulation of litter, formation of a thick root system and intergrown roots are converted into a biologically stable group which is capable of successfully competing with other varieties. It is recommended that the inter-rows be planted under corn, millet, potatoes for improving oak growth and lowering the expense of care.

Card : 1/1

-27-

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

BERCHENKO, B.Ye., kand.sel'skokhozyaystvennykh nauk (Odessa)

Coalescence of the root systems of trees. Nauka i shchitta
10 no.1:28-29 Ja '60. (MIRA 13:6)
(Roots (Botany))

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

BERCHENKO, B.E., kand.sel'skokhosyaystvennykh nauk

Results of the scientific conference dedicated to the 50th anniversary of the All-Union Institute of Breeding and Genetics.
Agrobiologija no.5:771-776 S-0 '62. (MIRA 15:11)

1. Vsesoyuznyy selektsionno-geneticheskiy institut, Odessa.
(Plant breeding--Congresses)

BERCHENKO, B.E., kand.sei'skokhozynystvennykh nauk

Following Michurin's theories. Zemledelie 24 no.8:89-91 Ag '62.
(MIRA 15:9)
(Plant breeding--Congresses)

MUSIYKO, A.S., doktor sel'khoz. nauk, otv. red.; BERCHENKO, B.E., red., kand. sel'khoz. nauk; VENGENOVSKIY, S.I., kand. sel'khoz. nauk, red.; VERESHCHAKA, A.I., kand. sel'khoz. nauk, red.; GARKAVYY, P.F., kand. sel'khoz. nauk, red.; DOLGUSHIN, D.A., akademik, red.; KIRICHENKO, F.G., akademik, red.; PUKHAL'SKIY, A.V., kand. sel'khoz. nauk, red.; SOKOLENKO, N.F., doktor sel'khoz. nauk, red.; KHITRINSKIY, V.F., doktor sel'khoz. nauk, red.; SMIRNOV, F.V., red.; TETYUREVA, I.V., red.; MAKHOVA, N.N., tekhn. red.

[Towards the development of Michurinist agrobiological theories] Za razvitiye michurinskoi agrobiologicheskoi nauki; materialy... Moskva, Sel'khozizdat, 1963. 350 p.

(MIRA 16:10)

1. Nauchnaya konferentsiya, posvyashchennaya 50-letiyu Vsesoyuznogo Ordena Lenina i Ordena Trudovogo Krasnogo Znameni selektsionno-geneticheskogo instituta imeni T.D. Lysenko.
2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina, direktor Vsesoyuznogo selektsionno-geneticheskogo instituta imeni T.D.Lysenko (for Musiynko).
3. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kirichenko, Dolgushin).
4. Vsesoyuznyy selektsionno-geneticheskiy institut imeni T.D.Lysenko (for Kirichenko, Vengrenovskiy, Garkavyy).
5. Glavnyy uchenyy sekretar' prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Pukhal'skiy).

(Plant breeding) (Plants, Cultivated)

BERCHENKO, E.B., inzh. (g. Aleksandriya, Kirovogradskoy oblasti);
BERCHENKO, R.I., inzh. (g. Aleksandriya, Kirovogradskoy oblasti)

Results of the tests of the PM-25 wet dust collecting unit.
Vod. i san. tekhn. no.10:9-12 O '65. (MIRA 18:11)

BERCHENKO, E.B., inzh. (g. Aleksandriya, Kirovogradskoy oblasti);
BERCHENKO, R.I., inzh. (g. Aleksandriya, Kirovogradskoy oblasti)

Results of the tests of the RM-25 wet dust collecting unit.
Vod. i san. tekhn. no.10:9-12 0 '65. (MIMA 18:11)

and the following day he had a severe attack of appendicitis.

10. The following table shows the results of the spectral analysis of the spectra.

Journal of Health Politics, Policy and Law, Vol. 31, No. 1, January 2006
DOI 10.1215/03616878-31-1 © 2006 by The University of Chicago

the first time in the history of the world, the people of the United States have been compelled to make a choice between two political parties, each of which has a distinct and well-defined platform, and each of which has a definite and well-defined object in view.

9,4160 (41501137,1395)
24,3500 1155,1160,1138

20850

S/048/61/025/003/039/047
B104/B203

AUTHOR: Berchenko, M. A.

TITLE: Effect of fluxing agents on the properties of electro-luminophores

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25.
no. 5, 1961, 415-419

TEXT: This paper was read at the 9th Conference on Luminescence (Crystal Phosphors) in Kiyev, June 20-25, 1960. The author studied the effect of cations and anions of fluxing agents on the color of luminophores excited by electric fields. The following mixture was used to produce luminophores: ZnS - 100 %; Cu - 0.2 %; Al - 0.025 %. This mixture was annealed with chlorine, iodine, and bromine fluxing agents in which the cations were elements of the first and second groups of the periodic system. Annealing was done in a quartz tube by a method suggested by O. N. Kazankin and F. M. Pekerman (Ref. 9: Sb. tr, GUPKha, no. 43, Khimiya i tekhnologiya lyuminoforov, pp. 46.- GKhl, L., 1960). Electroluminophores made with

Card 1/6

Effect of fluxing agents on the...

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S/049/61/025/002/039/047
B104/B203

X

various fluxing agents showed, on excitation by an electric field (200 v., 400 cycles/sec), green, greenish-blue, and blue colors. Figs. 1-3 graphically show the results. Fig. 1 shows the effect of cations of fluxing agents (chlorides) on the electroluminescence spectrum. Fig. 2 shows the effect of anions of fluxing agents (sodium halogens) on the electroluminescence spectrum, and Fig. 3 shows the effect of cations of fluxing agents (iodides) on the electroluminescence spectrum. The three figures reveal that anions and cations exert an influence on the emission of luminophores. The author finds that cation and anion of the fluxing agent change the luminescent color of the phosphor in strict dependence on their position within the periodic system. Results of this investigation are given in Table 1. The following rules have been established: The lower the position of anion and cation of the fluxing agent in the periodic system, the more they shift the emission toward the shortwave range. The more to the right the cation of the fluxing agent stands in the periodic system, the more it shifts the color of luminescence to the longwave range. The author thanks M. F. Gerbenko and N. I. Solomko for assisting in the synthesis of luminophores, and V. P. Martynova for measurements.

Card 2/6

20850

S/048/61/025/003/039/047
B104/B203

Effect of fluxing agents on the...

In a subsequent discussion, A. M. Gurvich reports on similar results obtained with ZnS-Cu luminophores, where $MgCl_2$ and NaCl were used as fluxing agents. With the former, the luminescence bands lay in the region of longer waves. V. L. Levshin and B. M. Gugel' are mentioned. There are 3 figures, 1 table, and 12 references: 5 Soviet-bloc, and 6 non-Soviet-bloc.

ASSOCIATION: Spetsial'noye konstruktorskoye byuro L'vovskogo elektro-lampovo go zavoda (Special Design Office of the L'vov Plant of Electric Tubes)

Card 3/6
3

X

30

YAKOVLEV, A.Ya.; BERCHENKO, M.I. (Kuybyshev)

Casuistics of diagnostic errors in cancer of the lung. Klin.
med. 40 no.12:110-111 D '62. (MIRA 17:2)

1. Iz kliniki gospital'moy khirurgii (zav. - prof. A.M.
Aminev) Kuybyshevskogo meditsinskogo instituta i bol'nitay
No.12 Kuybysheva (glavnnyy vrach Z.N. Fankratova).

BERCHENKO, N.

Achievements of the workers of the Odessa Mixed Feed Plant.
Mnkh. elev. prom. 27 no.10:7-8 0 '61. (MIRA 14:12)

1. Nachal'nik planovogo otdela Odesskoy bazy khleboproduktov.
(Odessa- Feed mills)

PAVLYUCHENKOV, A.K.; BERCHENKO, N.E.

Indices of business accounting operations in mixed feed mills. Izv.
vys. ucheb. zav.; pishch. tekhn. no.4:7-12 '61. (MIRA 14:3)

I. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina, kafedra
ekonomiki promyshlennosti.
(Feed mills--Accounting)

BERCHENKO, N.N., insh.

Operation of trains with two-level articulated cars. Zhel.
dor. transp. 41 no.11:74-76 N '59, (MIK. 13:2)
(Railroads--Passenger cars)

BERCHENKO, N.N., inzh.

New freight cars of the German Democratic Republic. Zhel.dor.
transp. 42 no.8;81-83 Ag '60. (MIRA 1);8)
(Germany, East--Railroads--Freight cars)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

BERCHENKO, N.N., inzh.

Railroads of the German Federal Republic. Zhel.dor.transp.
43 no.8:34-91 Ag '61. (MIRA 14:8)
(Germany, West--Railroads)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

BERCHENKO, N.N., Inzh.

Lubricators for rails. Put' i put. khoz. 7 no.10:45-47 '63.
(MIRA 16:12)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7

BERCHENKO, N.N., inch.

Polymeri i vysokoi moshchnosti i reaktivnosti. Institut put. khoz. g. no.3:
45-48 - 164.

(MIRA 17:3)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000200020019-7"

SHONIN, I. (c.talyabinak); LIKHOVIDOV T., frezerovshchik (g.Oshatsk);
BERGEMENKO, Ye., master; GORBACHEV, S., tekhnolog; PONOMAREV, V.;
GORYUSHIN, A., kompressorshchik (g.Moskva); SAZANTSEV, A., inzh.
-gidrotehnik (g.Kemerovo); MUROMTSEVA, L., inzh. (g.Volgograd)

Suggested, achieved, introduced. Izobr.i rats. no.12:22-23 D '61.
(MIRA 14:12)

1. Moskovskiy zavod po remontu ekskavatorov (for Borchenko,
Gorbachev). 2. Zamestitel' nachal'nika proizvodstvennogo otdela
kombinata Cherepovetsles (for Ponomarev).
(Technological innovations)

BERCHEV, K.

POPOV, L.; BERCHEV, K.

Analysis of 10,000 biopsy findings. Suvrem med., Sofia
4 no.9:20-32 1953. (CIML 25:5)

1. Communication I. 2. Of the Institute of General Pathology
and Pathological Anatomy (Head --Prof. Kardzhiev), V. Chervenkov
Medical Academy. Sofia.

RECORDED

POPOV, K.P.; BERCHEV, Kr.

Comparative investigations on characteristics and localization
of tumors according to autopsy material collected during 20 years.
Suvrem.med., Sofia 6 no.7:3-14 1955.

1. Iz Instituta po obshcha patologiya i patologichna anatomiia pri
Visshiiia meditsinski institut V.Chervenkov, Sofiia (zav.: prof.
B.Kurdzhiev).

(NEOPLASMS,
autopsy findings, 20 year survey)

BERGEM, E.; DREKOV, D.

"Interrelations between changes of the higher nervous activity and the local affections following an injection of a small dose of mercury chloride."

IZVESTIJA, Sofia, Bulgaria, No. 3, 1957

Monthly list of East Europe Accessions (EEAI), LC, Vol. 6, No. 6, Sept 59
Exclas

BERCHEV, KR.

BULGARIA / Pharmacology, Toxicology. Narcotics and Hypnotics

U-2

Abs Jour : Ref. Zh.-Biol., No 2, 1958, No 7907

Author : Drumev, D., Berchev, Kr., Tsanev, P.

Inst :

Title : Some Data on the Local Injury Following an Injection of Mercuric Chloride Given to White Rats while awake and During an Induced Sleep.

Orig Pub : Izv. In-ta Eksperim. Vet. Med. Blg. An, 1956, No 5, 3-15

Abstract : Experiments were performed on 216 rats. Mercuric Chloride was injected subcutaneously, the dose being 20 mg per kg. "Evipan-Sodium" was also given subcutaneously twice daily for two days. Necrosis was observed in 26% of the animals that had been subjected to an induced sleep as compared to 70% in the control animals; necrosis was less pronounced in the former group.

Card : 1/1

GIUROVSKI, A.; BERCHEV, K.

Contribution to cases of congenital pulmonary hypoplasia combined with diencephalic malformations. Suvrem med., Sofia no.11:117-122 '60.

1. Iz Katedrata po anatomiia na choveka V.Vorob'ev pri VMI, Sofia.
(Rukov. na katedrata prof. D.Kadanov) i Katedrata po patologichna
natomiia pri VMI, Sofia (Rukov. na katedrata prof. B.Kurdzhiev)
(LUNGS abnorm)
(DIENCEPHALON abnorm)

MARKOV, M., prof.; BERCHEV, Kr.; MARIN, St.

On mercury poisoning in therapeutic practice (A case of mercury poisoning caused by lavage of the urinary bladder). Khirurgija, Sofia 13 no.11:965-969 '60.

1. Vissz meditsinski institut, Sofia. Katedra po sudebna meditsina
Zav. katedrata: prof. M. Markov.
(MERCURY toxicol)
(BLADDER)

BERCHEV, Kr.

Pathological changes produced by biomycin (experimental studies).
Nauch. tr. vissh. med. inst. Sofia 39 no.1:131-147 '60.

1. Predstavena ot prof. B. Kurdzhiev, zav. Katedrata po patologichna
anatomia.

(CHLORTETRACYCLINE toxicol)

BERCHEV, Kr.

Role of biomycin in the pathogenesis of changes caused by *Candida albicans*. Nauch. tr. vissh. med. inst. Sofia 39 no.1:165-188 '60.

1. Predstavena ot prof. B. Kurdzhiev, zav. Katedrata po patologichna anatomiia.

(CHLORTETRACYCLINE pharmacol) (MONILIASIS exper)

VLADIMIR(V. Vl., BERCHEV, K.; DIMITROV, L.; CHOBANOVA, D.

Clinical, morphological and electrocardiographic changes in increased resistance of the organism to ionizing radiations. Nauch. tr. vissh. med. inst. Sofia 39 no.2:113-128 '60.

1. Predstavena ot prof. M. Rashev, zav. Katedrata po fakultetska terapiia.

(RADIATION INJURY exper)

BERCHEV, Kr.

Pathologo-anatomical changes in 3 cases of sudden death following administration of penicillin and streptomycin. Suvrem med., Sofia no.1:99-106 '61.

1. Katedra po patologichna anatomia pri Vishiia meditsinski institut, Sofiya. (Rukov. na katedrata prof. B. Kurdzhiev) i Katedra po sudebna meditsina. (Rukov. na katedrata prof. M. Markov.)

(PENICILLIN toxicol) (STREPTOMYCIN toxicol)
(DEATH SUDDEN pathol)

NIKOLOV, T.K.; BERCHEV, K.; ILKOV, A.T.

Effect of chlortetracycline on the blood serum protein picture in normal rabbits and in rabbits infected with Candida albicans. Antibiotiki 6 no.10: 924-929 O '61. (MIR 14:12)

1. Kafedra biokhimii imeni A.V.Palladina i kafedra patologicheskoy anatomii Vyshego meditsinskogo instituta v Sofii, Bolgariya.
(AUREOMYCIN) (BLOOD PROTEINS) (MONILLIASIS)

BERCHEV, kr.; POPOV, E.

On patho-anatomical changes during biomycin therapy. (Contribution to
a case of intravenous biomycin therapy). Suvr. med. 12 no.6:91-96
'61.

1. Iz Katedrata po patologichna anatomiia pri Visshiia meditsinski
institut, Sofiia,(Rukovoditel na katedrata prof. B. Kardzhiev)

(CHLORTETRACYCLINE toxicol)

BERCHEV, Kr.

Atherosclerosis and changes in internal organs. 10-year autopsy data (1947-1956). Suvar. med. 12 no.11:45-54 '61.

1. Iz Katedrata po patologichna anatomia pri VMI [Vissh meditsinski institut] - Sofia (Rukov. na katedrata prof. B. Kurdzhiev).

(ARTERIOSCLEROSIS)

BERCHEV, Kr.

3 cases of submucous lipoma of the gastric wall. Khirurgia, Sofia
14 no.1:81-83 '61.

1. Katedra po patologichna anatomiia pri Visshiia meditsinski
Institut, Sofiia.

(LIPOMA case reports) (STOMACH NEOPLASMS case reports)

DIMITROV, St.; TENEV, St.; BERCHEV, Kr.; POPMIKHAILOV, D.; PESHEV, Iv.

On the nature, development and complex therapy of breast cancer.
Nauch. tr. vissh. med. inst. Sofia 40 no.4:1-22 '61.

1. Predstavena ot prof. St. Dimitrov - ruk. na Katedrata po khirurgichni zaboliavaniia s ortopediia i travmatologiiia prof. B. Kurdzhiev - zav. Katedrata po patologichna anatomiia i prof. A. Nikolaev - zav. Katedrata po rentgenologiiia i radiologiiia.

(BREAST NEOPLASMS)

NIKOLOV, T.; BERCHEV, K.

Biochemical and histochemical changes in the gastric mucosa in rabbits treated with chlortetracycline. Nauch. tr. viessh. med. inst. Sofia 40 no.5:43-52 '61.

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